

Title (en)  
DUAL-TYPE WAVE GEAR DEVICE

Title (de)  
DUALTYP-WELLENGETRIEBEVORRICHTUNG

Title (fr)  
DISPOSITIF D'ENGRENAGE À ONDE DE TYPE DOUBLE

Publication  
**EP 3173659 B1 20210127 (EN)**

Application  
**EP 15824221 A 20150703**

Priority  
• JP 2014149372 A 20140723  
• JP 2015069244 W 20150703

Abstract (en)  
[origin: EP3173659A1] An externally toothed gear (4) of a dual-type strain wave gearing (1) is provided with first and second external teeth (7, 8) having different teeth numbers, and is flexed into an ellipsoidal shape by a wave generator. When the theoretical values ( $d_1$ ,  $d_2$ ) of the radial flexing amounts at major-axis positions of the first and second external teeth (7, 8) flexed into the ellipsoidal shape are expressed by  $d_1 = m_1 n_1$  and  $d_2 = m_2 n_2$  ( $m_1$  and  $m_2$  represent the modules of the first and second external teeth, and  $n_1$  and  $n_2$  represent positive integers), the radial flexing amounts ( $d_{1a}$ ,  $d_{2a}$ ) of the first and second external teeth (7, 8) flexed by the wave generator (5) satisfy  $d_{1a} = \epsilon d_1$  and  $d_{2a} = \epsilon d_2$ , where  $1.25 \leq \epsilon \leq 3$ . Accordingly, a dual-type strain wave gearing can be achieved with which the first and second external teeth having different numbers can be suitably flexed to form excellent mating states with respective internally toothed gears.

IPC 8 full level  
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CPC (source: EP KR RU US)  
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